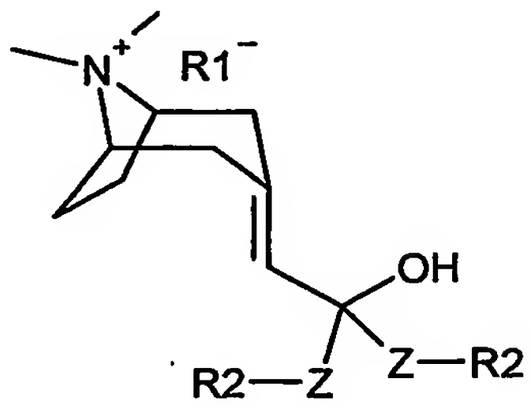
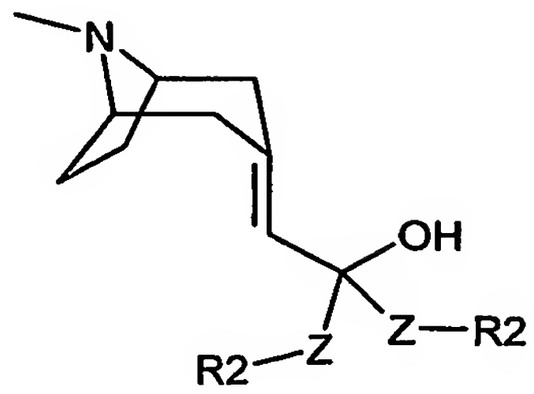
What is claimed is:

1. A compound having structure I or II as indicated below:




(I)




(II)

wherein:

$R1^-$ represents an anion associated with the positive charge of the N atom;

R2 is selected from the group consisting of cycloalkyl groups having from 5 to 6 carbon atoms, cycloalkyl-alkyl having 6 to 10 carbon atoms, heterocycloalkyl having 5 to 6 carbon atoms and N or O as the heteroatom, heterocycloalkyl-alkyl having 6 to10 carbon atoms and N or O as the heteroatom, aryl, optionally substituted aryl, heteroaryl, and optionally substituted heteroaryl; and

Z is a bond or $(C_1\text{-}C_6)$alkyl.

2. A compound according to claim 1 wherein $R1^-$ is selected from the group consisting of chloride, bromide, iodide, sulfate, benzene sulfonate and toluene sulfonate.

3. A compound according to claim 1 selected from the group consisting of:

2-(8-Methyl-8-aza-bicyclo[3.2.1]oct-3-ylidene)-1,1-di-thiophen-2-yl-ethanol;

2-Benzyl-1-(8-methyl-8-aza-bicyclo[3.2.1]oct-3-ylidene)-3-phenyl-propan-2-ol;

2-(8-Methyl-8-aza-bicyclo[3.2.1]oct-3-ylidene)-1,1-diphenyl-ethanol;

3-(2-Hydroxy-2,2-di-thiophen-2-yl-ethylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide;

3-(2-Benzyl-2-hydroxy-3-phenyl-propylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide; and

3-(2-Hydroxy-2,2-diphenyl-ethylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide.

4. A compound according to claim 3 selected from the group consisting of: 3-(2-Hydroxy-2,2-di-thiophen-2-yl-ethylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide;
3-(2-Benzyl-2-hydroxy-3-phenyl-propylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide; and
3-(2-Hydroxy-2,2-diphenyl-ethylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide.

5. A pharmaceutical composition for the treatment of muscarinic acetylcholine receptor mediated diseases comprising a compound according to claim 1 and a pharmaceutically acceptable carrier thereof.

6. A method of inhibiting the binding of acetylcholine to its receptors in a mammal in need thereof comprising administering a safe and effective amount of a compound according to claim 1.

7. A method of treating a muscarinic acetylcholine receptor mediated disease, wherein acetylcholine binds to said receptor, comprising administering a safe and effective amount of a compound according to claim 1.

8. A method according to claim 7 wherein the disease is selected from the group consisting of chronic obstructive lung disease, chronic bronchitis, asthma, chronic respiratory obstruction, pulmonary fibrosis, pulmonary emphysema and allergic rhinitis.

9. A method according to claim 7 wherein administration is via inhalation via the mouth or nose.

10. A method according to claim 7 wherein administration is via a medicament dispenser selected from a reservoir dry powder inhaler, a multi-dose dry powder inhaler or a metered dose inhaler.

11. A method according to claim 8 wherein the compound is administered to a human and has a duration of action of 12 hours or more for a 1 mg dose.

12. A method according to claim 11 wherein the compound has a duration of action of 24 hours or more.

13. A method according to claim 12 wherein the compound has a duration of action of 36 hours or more.